BRUHATH BENGALURU MAHANAGARA PALIKE

Yelahanka Division, Yelahanka Zone

Executive Engineeer
Yelahanka Division
B.B.M.P. Bengaluru - 64

No:EE/YNK-D/E-PMT/14/2021-22 Dated: 15-12-2021

APPROVED TENDER SCHEDULE –'B'

Item 03

Name of Work :-Additional Development works at Doddabettahalli Govt School in Attur Ward No 03

Sl	Description	Unit	Approved Qty	Rate quoted by the contractor approved rates Sri T S Kothanda Raju (Proprietor R K CONSTRUCTIONS, Proprietor SHREE CHARAN CONSTRUCTIONS)	
				Rate	Rate in Words
1	Excavation 1.5m and above in width in hard rock by chiselling and / or wedging, where blasting is prohibited for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5 m. in depth stacking the excavated stuff clear from the edge of excavation with lead upto 50m including cost of labour. Complete as per specifications and directions of the Engineer-in -charge.	Cum	36.49	2313.42	Two Thousand Three Hundred Thirteen Paise FourtyTwo Only
2	Providing and laying in position plain cement concrete of mix 1:4:8(M7.5)with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregtes @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing. Complete as per specifications and directions of the Engineer-in -charge.	Cum	7.62	6203.05	Six Thousand Two Hundred Three Paise Five Only
3	Providing and laying in position plain cement concrete of mix M15 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation,plinth and cills, including cost of all materials, labour, HOM of machinery, curing. Complete as per specifications and directions of the Engineer-in -charge.	Cum	11.22	6706.56	Six Thousand Seven Hundred Six Paise FiftySix Only
4	Providing and constructing granite / trap / basalt size stone masonry in foundation cement mortar 1:6, stone hammerddressed in courses not less than 20 cms high, bond stones at 2m apart in each course including cost of materials, labour, curing. Complete as per specifications and directions of the Engineer-in -charge.	Cum	17.08	5206.90	Five Thousand Two Hundred Six Paise Ninety Only
5	Providing and constructing granite / trap / basalt size stone masonry in superstructure with cement mortar 1:4 , edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, scaffolding, curing. Complete as per specifications and directions of the Engineer-in -charge	Cum	12.81	6803.18	Six Thousand Eight Hundred Three Paise Eighteen Only

6	Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing. Complete as per specifications and directions of the Engineer-in -charge.	Cum	21.35	160.87	One Hundred Sixty Paise EightySeven Only
7	Filling available excavated earth(excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour. Complete as per specifications and directions of the Engineer-in -charge.	Cum	13.00	227.72	Two Hundred TwentySeven Paise SeventyTwo Only
8	Conveying the excavated earth, debries etc., with all lead and lifts including loading and unloading charges etc., Complete as per specifications and directions of the Engineer-in -charge.	Cum	23.49	70.38	Seventy Paise ThirtyEight Only
9	Providing and removing centering, shuttering, strutting, propping etc. and Removal of form Work for columns, pillars, piers, post and struts, square / rectangular / polygon in plan including cost of all materials, labour Complete as per specifications and directions of the Engineer-in -charge.	Sqm	85.05	516.61	Five Hundred Sixteen Paise SixtyOne Only
10	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for suspended floors, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specificaitons for heights more than 3.50m from ground level. - 0 to 5 mtrs. Complete as per specifications and directions of the Engineer-in -charge.	Sqm	221.42	453.17	Four Hundred FiftyThree Paise Seventeen Only
11	Providing and removing centering, shuttering, strutting, propping etc., for edges of slabs and breaks in floors including cost of all materials,labour Complete as per specifications and directions of the Engineer-in -charge.	Sqm	11.43	855.35	Eight Hundred FiftyFive Paise ThirtyFive Only
12	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour. Complete as per specifications and directions of the Engineer-in -charge.	Sqm	166.88	330.81	Three Hundred Thirty Paise EightyOne Only
13	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for Stairs (excluding landing) except spiral staircase including cost of all materials, labour. Complete as per specifications and directions of the Engineer-in -charge.	Sqm	29.70	589.12	Five Hundred EightyNine Paise Twelve Only
14	Providing and removing centering, shuttering, strutting, propping etc., for chajjas, corbels etc. , including edges including cost of all materials, labour Complete as per specifications and directions of the Engineer-in -charge.	Sqm	28.08	365.93	Three Hundred SixtyFive Paise NinetyThree Only

	Providing and laying in position reinforced cementconcrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum andfine aggregtes @ 0.47cum,with superplastisiser @3lts confirming to IS 9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick,vibrated fo all works in ground Floor level for roof slabs ,staircase, lintels , beams, retaining walls ,return wall, walls (an thivck ness) including attached plasters ,columns, pillars,posts,struts.butters,string or lacing courses ,parapets,coping,bed blocks,anchor blocks ,plain window cills,fillets including cost of all materials, labour,HOM of machinery, curing. Complete as per specifications and directions of the Engineer-in - charge. Ground Floor	Cum	2.87	7647.31	Seven Thousand Six Hundred FourtySeven Paise ThirtyOne Only
16	Providing and laying in position reinforced cementconcrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum andfine aggregtes @ 0.47cum,with superplastisiser @3lts confirming to IS 9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick,vibrated fo all works in ground Floor level for roof slabs ,staircase, lintels , beams, retaining walls ,return wall, walls (an thivck ness) including attached plasters ,columns, pillars,posts,struts.butters,string or lacing courses ,parapets,coping,bed blocks,anchor blocks ,plain window cills,fillets including cost of all materials, labour,HOM of machinery, curing. Complete as per specifications and directions of the Engineer-in - charge. First Floor	Cum	14.00	7715.29	Seven Thousand Seven Hundred Fifteen Paise TwentyNine Only
17	Providing and laying cement concrete using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) for R.C.C works laid in 15 cms thick layers and well compacted including vibrating, curing, etc for all super Structure works with all lead and Lift etc., complete (exclusive of cost of steel and fabrication charges) Ready mixed cement for concrete with M-25. Complete as per specifications and directions of the Engineer-in - charge. First Floor	Cum	43.87	7026.47	Seven Thousand TwentySix Paise FourtySeven Only
18	Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 27.20kgs, with 12mm and down size graded granite metal coarse aggregates @0.5865cum and fine aggregtes @ 0.391cum, with superplastisiser @0.225lts, machine mixed, well compacted for plain chajja of 8.5 cms. average thickness, upto First Floor level, including cost of all materials, labour, HOM of machinery, finishing, curing . Complete as per specifications and directions of the Engineer-in - charge. Ground Floor	Sqm	10.80	561.93	Five Hundred SixtyOne Paise NinetyThree Only

	Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 27.20kgs, with 12mm and down size graded granite metal coarse aggregates @0.5865cum and fine aggregtes @ 0.391cum, with superplastisiser @0.225lts, machine mixed, well compacted for plain chajja of 8.5 cms. average thickness, upto First Floor level, including cost of all materials, labour, HOM of machinery, finishing, curing. Complete as per specifications and directions of the Engineer-in - charge. First Floor	Sqm	10.80	567.59	Five Hundred SixtySeven Paise FiftyNine Only
20	Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery .Complete as per specifications and directions of the Engineer-in - charge.Ground Floor.	tonne	0.40	99036.47	NinetyNine Thousand ThirtySix Paise FourtySeven Only
21	Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery . Complete as per specifications and directions of the Engineer-in - charge. First Floor	tonne	7.26	99883.89	NinetyNine Thousand Eight Hundred EightyThree Paise EightyNine Only
22	Providing and constructing load bearing wall with solid concrete blocks of size 400X200X200mm having block density not less than 1800kg/m3 having a minimum average compressive strength 5.00N/mm2 confirming to IS 2185 (part 1) :2005 and constructed with cement mortar 1:4,as per IS 2572:2005 including cost of materials, labour charges, scaffolding, curing, hire charges of machinaries etc. Complete as per specifications and directions of the Engineer-in - charge. Ground Floor.	Sqm	330.51	1033.22	One Thousand ThirtyThree Paise TwentyTwo Only
23	Providing and constructing load bearing wall with solid concrete blocks of size 400X200X200mm having block density not less than 1800kg/m3 having a minimum average compressive strength 5.00N/mm2 confirming to IS 2185 (part 1) :2005 and constructed with cement mortar 1:4,as per IS 2572:2005 including cost of materials, labour charges, scaffolding, curing, hire charges of machinaries etc. Complete as per specifications and directions of the Engineer-in - charge. First Floor	Sqm	330.51	1072.88	One Thousand SeventyTwo Paise EightyEight Only

	Providing and constructing non-load bearing wall with solid concrete blocks of size 400X100X200 having a block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 conforming to I.S : 2185 (Part 1) : 2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials, labour charges, scaffolding, curing, hire chargesof machineries etc.,fComplete as per specifications and directions of the Engineer-in -charge. Ground Floor	Sqm	102.87	918.80	Nine Hundred Eighteen Paise Eighty Only
25	Providing and constructing non-load bearing wall with solid concrete blocks of size 400X100X200 having a block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 conforming to I.S : 2185 (Part 1) : 2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials, labour charges, scaffolding, curing, hire chargesof machineries etc., for Complete as per specifications and directions of the Engineer-in -charge. First Floor	Sqm	93.82	958.45	Nine Hundred FiftyEight Paise FourtyFive Only
26	Providing and constructing non-load bearing wall with solid concrete blocks of size 400X100X200 having a block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 conforming to I.S : 2185 (Part 1) : 2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials, labour charges, scaffolding, curing, hire chargesof machineries etc.,. Complete as per specifications and directions of the Engineer-in -charge. Terrace	Sqm	119.70	998.10	Nine Hundred NinetyEight Paise Ten Only
27	Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners. wherever required smooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing , Complete as per specifications and directions of the Engineer-in -charge. Ground Floor.	Sqm	422.48	295.69	Two Hundred NinetyFive Paise SixtyNine Only
28	Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners. wherever required smooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing Complete as per specifications and directions of the Engineer-in -charge. First Floor	Sqm	428.18	309.29	Three Hundred Nine Paise TwentyNine Only
29	Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners. wherever required smooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing. Complete as per specifications and directions of the Engineer-in -charge. Terrace	Sqm	251.37	322.88	Three Hundred TwentyTwo Paise EightyEight Only
30	Providing 12mm thick cement plaster in single coat with cement mortar 1:4 , to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing for . Complete as per specifications and directions of the Engineer-in -charge. Ground Floor	Sqm	214.23	231.12	Two Hundred ThirtyOne Paise Twelve Only

	Providing 12mm thick cement plaster in single coat with cement mortar 1:4 , to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing for . Complete as per specifications and directions of the Engineer-in -charge. First Floor	Sqm	208.56	237.91	Two Hundred ThirtySeven Paise NinetyOne Only
32	Providing rough cement plastering 15mm thick in single coat with cement mortar 1:4 to brick masonry for base of dadooing works with sand of approved quality, providing and removing scaffolding, inclding cost of materials, labour, curing Complete as per specifications and directions of the Engineer-in -charge.Ground Floor	Sqm	100.38	232.25	Two Hundred ThirtyTwo Paise TwentyFive Only
33	Providing rough cement plastering 15mm thick in single coat with cement mortar 1:4 to brick masonry for base of dadooing works with sand of approved quality, providing and removing scaffolding, inclding cost of materials, labour, curing Complete as per specifications and directions of the Engineer-in -charge. First Floor	Sqm	84.53	239.05	Two Hundred ThirtyNine Paise Five Only
34	Providing 12mm thick cement plaster in single coat with cement mortar 1:4 , to ceiling including rounding off corners wherever required smooth rendering, : including Providing and removing scaffolding, including cost of materials, labour, curing for . Complete as per specifications and directions of the Engineer-in -charge.	Sqm	824.80	254.91	Two Hundred FiftyFour Paise NinetyOne Only
35	Providing applying two coats of wall putty to inside plastered walls and ceiling using white cement putty . Scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers, including cost of alll mateerial cost of labour and scaffolding etc. ,Complete as per specifications and directions of the Engineer-in -charge.	Sqm	1247.59	88.37	EightyEight Paise ThirtySeven Only
36	Providing and applying painting in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour. Complete as per specifications and directions of the Engineer-in -charge.	Sqm	422.79	101.96	One Hundred One Paise NinetySix Only
37	Providing and applying two coats with oil bound washable distemper of approved brand and shade on wall surface including priming coat with distemper primer after throughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour. Complete as per specifications and directions of the Engineer-in -charge.	Sqm	824.80	133.68	One Hundred ThirtyThree Paise SixtyEight Only

	Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour. Complete as per specifications and directions of the Engineer-in -charge. Ground floor	Sqm	422.48	115.56	One Hundred Fifteen Paise FiftySix Only
39	Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour . Complete as per specifications and directions of the Engineer-in -charge. First floor.	Sqm	428.18	124.62	One Hundred TwentyFour Paise SixtyTwo Only
40	Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour. . Complete as per specifications and directions of the Engineer-in -charge. Terrace	Sqm	251.37	133.68	One Hundred ThirtyThree Paise SixtyEight Only
41	Providing and laying Hassan Green / River Pink granite flooring for staircase, treads and rises using pre polished 20 mm thick water cut green Granite slab laid over existing cement concrete bed in CM 1:3, average 20mm thick including full rounding for nosing , cutting 3 line grooves not more than 2 mm wide for antiskidding, including cost of all materials,mortar,labour,curing etc.,Complete as per specifications and directions of the Engineer-in -charge. Ground Floor	Sqm	20.52	5048.29	Five Thousand FourtyEight Paise TwentyNine Only
42	Providing and laying Hassan Green / River Pink granite flooring for staircase, treads and rises using pre polished 20 mm thick water cut green Granite slab laid over existing cement concrete bed in CM 1:3, average 20mm thick including full rounding for nosing , cutting 3 line grooves not more than 2 mm wide for antiskidding, including cost of all materials,mortar,labour,curing etc.Complete as per specifications and directions of the Engineer-in -charge. First floor.	Sqm	20.52	5050.56	Five Thousand Fifty Paise FiftySix Only
43	Providing and laying M-15 cement concrete flooring, 50 mm thick with metallic concrete hardner topping , under layer of 35mm thick m-15 cement concrete using broken granite metal of 20mm and down size, and top layer 50mm thick of metallic cement hardner consisting of mix 1:2 (1 cement hardner mix : 2 granite metal 10mm nominal size) by volume, with which metallic hardening compound of approved quality mix in the ratio of 4:1 (4 part of cement and 1 part of metallic floor hardening compound of approved quality by wt) , including finishing cost of materials, labour, curing. Complete as per specifications and directions of the Engineer-in -charge. Ground Floor	Sqm	356.47	714.87	Seven Hundred Fourteen Paise EightySeven Only

	Providing and laying M-15 cement concrete flooring, 50 mm thick with metallic concrete hardner topping , under layer of 35mm thick m-15 cement concrete using broken granite metal of 20mm and down size, and top layer 50mm thick of metallic cement hardner consisting of mix 1:2 (1 cement hardner mix : 2 granite metal 10mm nominal size) by volume, with which metallic hardening compound of approved quality mix in the ratio of 4:1 (4 part of cement and 1 part of metallic floor hardening compound of approved quality by wt) , including finishing cost of materials, labour, curing. Complete as per specifications and directions of the Engineer-in -charge. First floor.	Sqm	338.51	717.14	Seven Hundred Seventeen Paise Fourteen Only
45	Providing and fixing for flooring 20mm thick gang saw water cut sadarhalli gray granite in CM 1:4 proportion, cut to required shape, pattern with paper joints, finished with cement mortar using white cement and colour pigments to match the colour of slab making through jointing with sealant, groves in joints including cost of curing - minimum width of 900mm . Complete as per specifications and directions of the Engineer-in -charge. Ground Floor	Sqm	338.51	2242.05	Two Thousand Two Hundred FourtyTwo Paise Five Only
46	Providing and fixing for flooring 20mm thick gang saw water cut sadarhalli gray granite in CM 1:4 proportion, cut to required shape, pattern with paper joints, finished with cement mortar using white cement and colour pigments to match the colour of slab making through jointing with sealant, groves in joints including cost of curing - minimum width of 900mm Complete as per specifications and directions of the Engineer-in -charge. . First floor.	Sqm	307.71	2244.31	Two Thousand Two Hundred FourtyFour Paise ThirtyOne Only
47	Providing and fixing Vetrified glazed tiles of approved make quality & colour of size 900x900x 12mm thick fixed on bed of 12mm thick cement mortar for flooring ,skirting ad jointed with neat cement slurry mixed with pigment to match shade of tiles, including providing spacers at required interval and removing stains etc including Cost of all materials mortar labour etc Complete as per specifications and directions of the Engineer-in -charge. Ground Floor	Sqm	17.87	1288.13	One Thousand Two Hundred EightyEight Paise Thirteen Only
48	Providing and fixing Vetrified glazed tiles of approved make quality & colour of size 900x900x 12mm thick fixed on bed of 12mm thick cement mortar for flooring ,skirting ad jointed with neat cement slurry mixed with pigment to match shade of tiles, including providing spacers at required interval and removing stains etc including Cost of all materials mortar labour etc Complete as per specifications and directions of the Engineer-in -charge. . First floor.	Sqm	23.10	1290.40	One Thousand Two Hundred Ninety Paise Fourty Only
49	Providing Ceramic tiles of size 30x30cms 6mm thick of approved make ,shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment , including cost of materials, labour, curing, Complete as per specifications and directions of the Engineer-in -charge. Ground Floor	Sqm	11.22	1370.83	One Thousand Three Hundred Seventy Paise EightyThree Only

	Providing Ceramic tiles of size 30x30cms 6mm thick of approved make ,shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment , including cost of materials, labour, curing, Complete as per specifications and directions of the Engineer-in -charge. . First floor.	Sqm	6.36	1373.10	One Thousand Three Hundred SeventyThree Paise Ten Only
51	Providing skirting, dado, rises of steps with colour glazed tiles 30X60 cms 6mm thick with border of size 30 x 10 cms on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface (excluding cost of rough plastered surface which should be measured and paid separately) using glazed tiles of approved make and size including cost of materials, labour Complete as per specifications and directions of the Engineer-in -charge. Ground Floor	Sqm	125.55	1848.93	One Thousand Eight Hundred FourtyEight Paise NinetyThree Only
52	Providing skirting, dado, rises of steps with colour glazed tiles 30X60 cms 6mm thick with border of size 30 x 10 cms on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface (excluding cost of rough plastered surface which should be measured and paid separately) using glazed tiles of approved make and size including cost of materials, labour. Complete as per specifications and directions of the Engineer-in -charge. First floor.	Sqm	109.70	1851.19	One Thousand Eight Hundred FiftyOne Paise Nineteen Only
53	Providing half nosing for 20mm thick granite slab using required machinery including cost and conveyance of all materials, labour for all items of work, HOM of equipment etc., Complete as per specifications and directions of the Engineer-in -charge. Ground Floor	m	167.80	203.93	Two Hundred Three Paise NinetyThree Only
54	Providing half nosing for 20mm thick granite slab using required machinery including cost and conveyance of all materials, labour for all items of work, HOM of equipment etc.,Complete as per specifications and directions of the Engineer-in -charge. First Floor	m	167.80	206.19	Two Hundred Six Paise Nineteen Only
55	Waterproofing of RCC Terrace / podium slab / toilet / utilities / water retaining structure by preparing the surface by chipping and cleaning and Grouting of Honey comb, voids,cracks / construction joints with cement slurry (1kg cement added in 10 ltr of water) added with 100gm of inorganic accelerator, followed by spraying of liquid biological modified alkaline earth silicates @ 0.40 ltr per sqm on whole surface to reduce the micro porosity and allowing it to dry, curing the surface for the silicates to penetrate deeper into the concrete and spraying waterproofing impregnate liquid containing silane and silanol linear copolymer @ 0.50 ltr per sqm and finally applying polymer slurry made out of cross linked acrylic / styrene / butadiene & cement in the ratio of 1:0.1, @0.50kg/sqm on the whole surface, including all labour charges tools and equipments . Complete as per specifications and directions of the Engineer-in -charge	Sqm	395.15	595.92	Five Hundred NinetyFive Paise NinetyTwo Only

	Fixing of door frames in an existing opening including embedding frame in floor and walls after cutting masonary for holdfasts for embedding holdfast in cement concrete 1:3:6 of 20mm and downsize granite metal painting two coats of coal tar to sides of frame,making good the damages to walls and floor as required and disposal of the debries with lead upto 50 m. including cost of materials, labour. Complete as per specifications and directions of the Engineer-in -charge. Ground Floor	Nos	6.00	1547.57	One Thousand Five Hundred FourtySeven Paise FiftySeven Only
57	Fixing of door frames in an existing opening including embedding frame in floor and walls after cutting masonary for holdfasts for embedding holdfast in cement concrete 1:3:6 of 20mm and downsize granite metal painting two coats of coal tar to sides of frame,making good the damages to walls and floor as required and disposal of the debries with lead upto 50 m. including cost of materials, labour Complete as per specifications and directions of the Engineer-in -charge. First Floor	Nos	6.00	1551.76	One Thousand Five Hundred FiftyOne Paise SeventySix Only
58	Providing Honne wood frames of doors, windows, clerestory windows,ventilators and other frames , wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps),but including cost of materials, labour, HOM of machineries. Complete as per specifications and directions of the Engineer-in -charge.	Cum	2.38	99248.32	NinetyNine Thousand Two Hundred FourtyEight Paise ThirtyTwo Only
59	Providing and fixing 65mmx90mm GRP Doorframe fabricated using E-Glass Chopped Strand Mat (CSM). U.V-stabilized Isopthalic Gelcoat and Isopthalic resin. The thickness of the GRP skin shall not be less than 2.0 mm. The doorframe consists of four segmens, which are provided with plug-in-socket arrangement in-situ in the mould. The segments are plugged in and are joined together by means of screws. The GRP frame shall be provided with wooden reinforcement of 6 locations fro high screw holding capacity for fixing metallic hold fast and shall be consolidated by filling with medium density foam/Plaster with fibre reinforcement. Six Numbers of 260mmx25mmx5mm size S shaped M.S. flat hold fast shall be provided with the frame. Complete as per specifications and directions of the Engineer-in -charge. Ground Floor	m	45.60	509.81	Five Hundred Nine Paise EightyOne Only

	Providing and fixing 65mmx90mm GRP Doorframe fabricated using E-Glass Chopped Strand Mat (CSM). U.V-stabilized Isopthalic Gelcoat and Isopthalic resin. The thickness of the GRP skin shall not be less than 2.0 mm. The doorframe consists of four segmens, which are provided with plug-in-socket arrangement in-situ in the mould. The segments are plugged in and are joined together by means of screws. The GRP frame shall be provided with wooden reinforcement of 6 locations fro high screw holding capacity for fixing metallic hold fast and shall be consolidated by filling with medium density foam/Plaster with fibre reinforcement. Six Numbers of 260mmx25mmx5mm size S shaped M.S. flat hold fast shall be provided with the frame f. Complete as per specifications and directions of the Engineer-in -charge. First Floor	m	28.50	514.35	Five Hundred Fourteen Paise ThirtyFive Only
61	Providing and fixing in position fully panelled Honne wood shutters for doors, styles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM of machineries complete as per specifications. (excluding cost of fixtures)Complete as per specifications and directions of the Engineer-in -charge. Ground Floor	Sqm	15.12	5349.65	Five Thousand Three Hundred FourtyNine Paise SixtyFive Only
62	Providing and fixing in position fully panelled Honne wood shutters for doors, styles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM of machineries complete as per specifications. (excluding cost of fixtures) Complete as per specifications and directions of the Engineer-in -charge. First Floor	Sqm	15.12	5354.18	Five Thousand Three Hundred FiftyFour Paise Eighteen Only
63	Providing and fixing factory made single leaf rigid GRP Sandwich composite door shutter of 40 mm thick, laminated with two GRP skins with wood grain finish, fabricated using U.V-stabilized Isopthalic Gelcoat and one layer of 450 gns E-Glass Chopped Strand Mat (CSM), impregnated with orthopthalic polyester resin. The thickness of the skins shall not be less than 1.5mm. Expanded Polystyrene (EPS) structural foam panel of 37mm thickness and a density of 20 Kg/m3 shall be used as core material. Wooden reinforcements made of Seasoned Salwood block of cross section not lessthan 36mmx32mmand also necessary salwood reinforcements for fixing the metal fittings such as tower bolts, aldrops, handles, etc. shall be provided. A structural adhesive compatible with EPS foam shall be used for bonding the core material, the salwood reinforement and the skins. The material and process for manufacturing the door shutters shall confirm to RV-TIFAC Composites Design Centre Standards and specifications and the door shutters tested in confiramation to IS 4020-1994. The finish of shutter will be plain coulur White/IVORY/Beige/Light Grey or any other colour using high quality pigments	Sqm	12.60	4305.10	Four Thousand Three Hundred Five Paise Ten Only

	Providing and fixing factory made single leaf rigid GRP Sandwich composite door shutter of 40 mm thick, laminated with two GRP skins with wood grain finish, fabricated using U.V-stabilized Isopthalic Gelcoat and one layer of 450 gns E-Glass Chopped Strand Mat (CSM), impregnated with orthopthalic polyester resin. The thickness of the skins shall not be less than 1.5mm. Expanded Polystyrene (EPS) structural foam panel of 37mm thickness and a density of 20 Kg/m3 shall be used as core material. Wooden reinforcements made of Seasoned Salwood block of cross section not lessthan 36mmx32mmand also necessary salwood reinforcements for fixing the metal fittings such as tower bolts, aldrops, handles, etc. shall be provided. A structural adhesive compatible with EPS foam shall be used for bonding the core material, the salwood reinforement and the skins. The material and process for manufacturing the door shutters shall confirm to RV-TIFAC Composites Design Centre Standards and specifications and the door shutters tested in confiramation to IS 4020-1994. The finish of shutter will be plain coulur White/IVORY/Beige/Light Grey or any other colour using high quality pigments	Sqm	7.88	4309.63	Four Thousand Three Hundred Nine Paise SixtyThree Only
65	Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials, labour, complete as per specifications.Complete as per specifications and directions of the Engineer-in -charge.	Sqm	30.24	109.89	One Hundred Nine Paise EightyNine Only
66	Providing & fixing of 3 Track - 2 Panel Sliding Windows made out of multi chambered UPVC(Matching to RAL-9016) sections and with minimum TiO2(Titanium Dioxide) at 6PHR with TPV(Thermo Plastic Vulcanized) and lead free, gaskets having isolated drainage and reinforced with Galvanized Iron profile through-out the window Frame. The outer frame having a overall size of 108 mm width X 45 mm height with reinforcement of 1 mm thickness and sash with overall size of 39 mm x 75 mm with GI reinforcement of 2 mm and mesh sash of size 30mm.Windows shall be provided with 5mm plain float glass, standard hardware and single point locking system with touch lock. Wall thickness of frame and sash shall be of 2mm -2.5mm. Maximum possible size 2419mm x 21119 mm. Complete as per specifications and directions of the Engineer-in -charge.	Sqm	108.00	5913.84	Five Thousand Nine Hundred Thirteen Paise EightyFour Only

	sections with Minimum TiO2(Titanium Dioxide) at SPHR with TPV(Thermo Plastic Vulcanized) and lead free with gaskets-grey colour having isolated drainage and reinforced with Galvanized Iron profiles through out the Ventilator Frame. The frame having a overall size of 39mm x 39mm with GI reinforcement of 1 mm thickness. Louver clip in Aluminium(powder coated in white) will be used on the frame along with plastic parts for fixing the4mm pin head glass. Wall thickness of frame shall be 2mm. Maximum possible size-1000mm X 1000mm. Complete as per specifications and directions of the Engineer-in -charge	Sqm	4.50	4114.77	Four Thousand One Hundred Fourteen Paise SeventySeven Only
68	Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approve design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery for GROUND FLOOR. Complete as per specifications and directions of the Engineer-in -charge. First Floor	Kg	1181.25	107.63	One Hundred Seven Paise SixtyThree Only
69	Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approve design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery for FIRST FLOOR. Complete as per specifications and directions of the Engineer-in -charge.	Kg	1181.25	114.42	One Hundred Fourteen Paise FourtyTwo Only
70	Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour. Complete as per specifications and directions of the Engineer-in -charge.	Sqm	220.50	107.63	One Hundred Seven Paise SixtyThree Only
71	Providing and fixing Stainless steel staircase raling as per Chief Architect Drawing No. 11520/ HRSC with hand rail 50mm dia 16 guage hollow pipe welded to vertical hollow 50mm dia pipe of 16 guage, stainless steel vertical pipe spaced at 1.20m regular intervals, and 5 Nos of 25mm dia. Stainless steel hollow horizontal pipe are welded to vertical 50mm dia hollow pipe. The entire assembly is fixed to staircase concrete by using expansion bolts by drilling concrete etc., complete including cost of materials, labour, HOM of machineries and electrical charges, etc., Complete as per specifications and directions of the Engineer-in -charge Ground Floor	Sqm	7.84	6821.31	Six Thousand Eight Hundred TwentyOne Paise ThirtyOne Only

	Providing and fixing Stainless steel staircase raling as per Chief Architect Drawing No. 11520/ HRSC with hand rail 50mm dia 16 guage hollow pipe welded to vertical hollow 50mm dia pipe of 16 guage, stainless steel vertical pipe spaced at 1.20m regular intervals, and 5 Nos of 25mm dia. Stainless steel hollow horizontal pipe are welded to vertical 50mm dia hollow pipe. The entire assembly is fixed to staircase concrete by using expansion bolts by drilling concrete etc., complete including cost of materials, labour, HOM of machineries and electrical charges, etc.,Complete as per specifications and directions of the Engineer-in -charge. First Floor	Sqm	7.84	6828.11	Six Thousand Eight Hundred TwentyEight Paise Eleven Only
73	Construction of Embankment with Material Gravel/ Murrum. KSRRB M300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300- 2 complete as per specifications.(Including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of proctors density) MORTH.Complete as per specifications and directions of the Engineer-in -charge.	Cum	20.86	368.20	Three Hundred SixtyEight Paise Twenty Only
74	Providing and fixing M.S.Grill over existing compound wall as per, using 16mm x 16mm M.S.Square rod at 150mm c/c spacing and 6mm x 40mm M.S. flats at horizontal and 6mm x12mm M.S. flat for ornamental design and providing shop edge design at the vertex of every vertical rods, including welding, grinding wherever necessary. All the steel surface should be thoroughly cleaned free of rust and painted with anti corrosive paint (shop paint) etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, etc., Complete as per specifications and directions of the Engineer-in -charge.	Sqm	109.31	6089.45	Six Thousand EightyNine Paise FourtyFive Only

Signature of the Contractor

Executive Engineer,
Yelahanka Division,
BBMP, Bengaluru-64.